

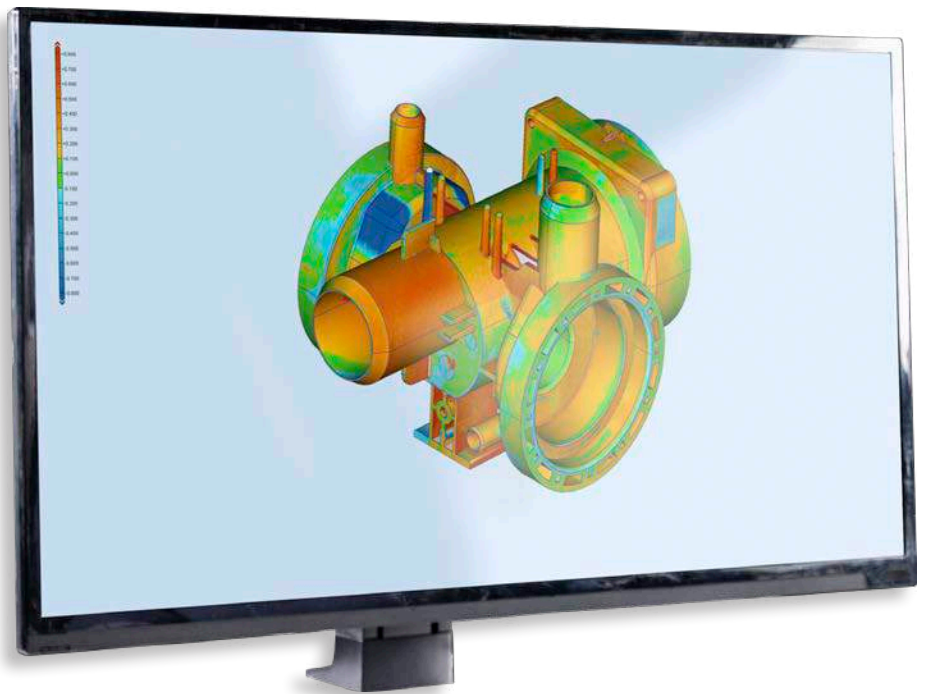


SGCapture

**SGCapture** is a module for OGP® EVOLVE® SmartProfile® that allows users to both acquire and evaluate scan data in a single software package.

- **Automated Routines** – Users can easily create automated inspection routines, for fast and repeatable part measurement. Automated routines cover the entire scanning process, from data acquisition to final inspection report generation.
- **Intuitive Features** – Align data sets from multiple scan sessions, achieving more complete part coverage. Generate meshes for third party applications, such as reverse engineering. Directly control scanner properties for optimal part scanning.

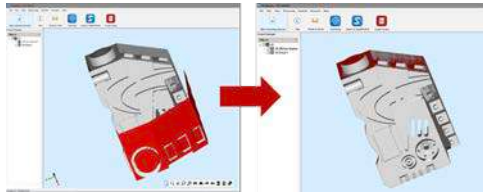
Acquire and evaluate scan data  
in a single software package



Scan data gathered via OGP ShapeGrabber® Ai320 Automatic 3D Laser Scanning System



## Unique Features of SGCapture



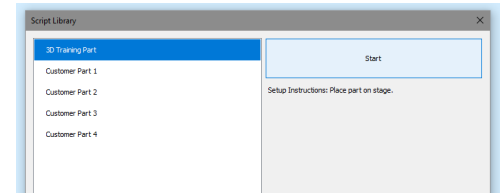
### Scan Registration

Combine multiple scan sets for more complete part coverage. Precisely align multiple scans using a simple point-picking system. Automate the scan set alignment for subsequent part processing.



### Scan Polygonization

Generate meshes from point clouds. Export as STL files for use in third party applications.



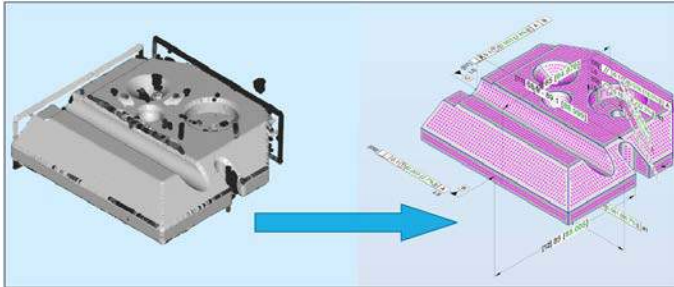
### Simple, Clean Operator Interface

Create automated inspection routines for fast and repeatable part measurement, and launch the routines in a single click.

## About SmartProfile

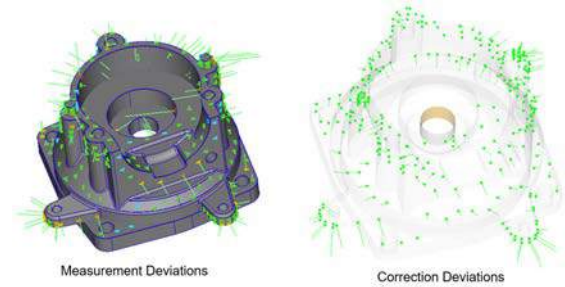
**OGP EVOLVE SmartProfile** is the world's leading dimensional analysis software. SmartProfile provides guidance for adding or modifying part design tolerances. It combines measurement data with the CAD model of the part and automatically runs GD&T (ASME) and GPS (ISO) evaluations. Its rich set of tools allow engineers to analyze and solve complex manufacturing problems.

- Eliminate results variability caused by using different evaluation techniques and/or metrology software.
- Eliminate human error caused by incorrect interpretation and implementation of ASME Y14.5 and ISO 1101 standards.
- Quickly assess part tolerances and processes to improve production.
- Optimize enterprise resources by separating part measurements from the tolerance evaluation process.



### CMM-like Sampler

The 'CMM-like Sampler' converts dense and noisy scan data to reliable, sparse, 'CMM-like' point data for standard based dimensional and GD&T evaluation. This tool is feature and CAD model based, and samples points using the CAD model's geometry information.



### Boost

Boost is a fully automatic method used to eliminate systematic measurement errors and achieve more accurate results from fast 3D scanning through software rather than slow and often expensive measurement systems. Boost is part and method specific, based on the comparison of measurements from the same part on the 3D scanner and a reference machine. This provides a dynamic compensation that maps the accuracy of the reference machine to the data from the 3D scanner.

SGCapture is compatible with all ShapeGrabber Automatic 3D Laser Scanning Systems



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